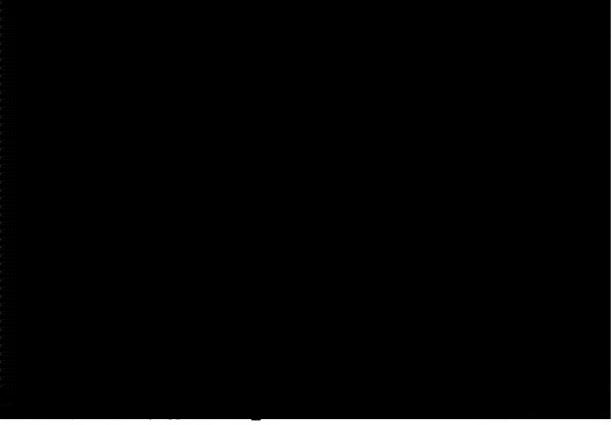
Approved For Release 2001/08/02: CIAIRON 81-01028R00010012000 CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT 25X1A DATE DISTR. 4 JUN 52 COUNTRY: Germany (Sev Zone) .NO. OF PAGES SUBJECT : "Stalin's Organ" -- An Experimental Installation for the Production of Heavy Water NO. OF ENCLS. **PLACE** ACQUIRED: (LISTED BELOW) 25X1C 25X1A DATE SUPPLEMENT TO ACQUIRED BY SOURCE : REPORT NO. 00-G-00042 DATE OF INFORMATION: THIS IS UNEVALUATED INFORMATION <sup>1</sup>25X1X



## Explanation of Enclosure (A)

2. Heavy water of low concentration passes from catalyst cell one to cells 2, 3, etc, and flows from the last cell as about 95% heavy water. It then goes to an electrolytic cell in the center of the ring of catalyst cells where it is partially decomposed with an electric current. The

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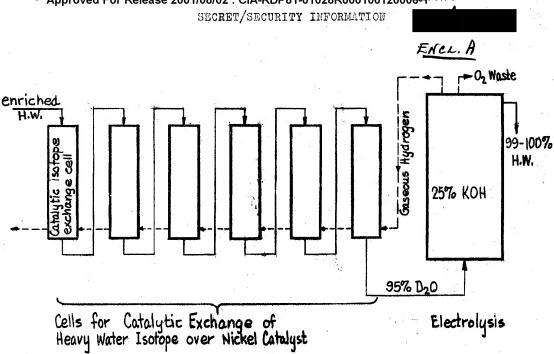
-2-

oxygen gasses off as waste, while the hydrogen, with a high percentage of deuterium content, is circulated back through the catalyst cells from the last cell to the first in the direction counter to the flow of the water. About 25% of KOH is added to the electrolytic cell as an electrolyte. The water obtained from the electrolytic cell, after being partly electrolyzed, is 99-100% heavy water.

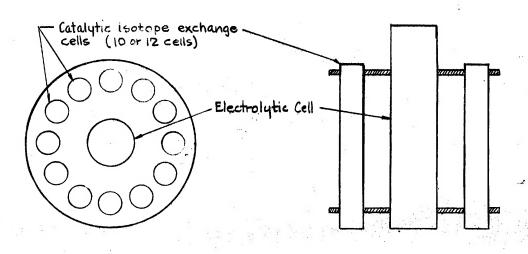
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Enclosure (A) - Stalin's Organ (Experimental Installation for the Production of Heavy Water)

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## DIAGRAMATIC SKETCH OF HEAVY WATER PRODUCTION



PLAN VIEW of Installation

VERTICAL SECTION
OF INSTALLATION

## "STALIN'S ORGAN"

(EXPERIMENTAL INSTALLATION FOR THE PRODUCTION OF HEAVY WATER)

ENCLOSURE (A)

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